

For Research Use Only

# CD89 Recombinant antibody

Catalog Number: 84384-5-RR



## Basic Information

|  |   |   |
|--|---|---|
| <b>Catalog Number:</b><br>84384-5-RR                           | <b>GenBank Accession Number:</b><br>BC027953          | <b>Purification Method:</b><br>Protein A purification |
| <b>Size:</b><br>100ul , Concentration: 1000 ug/ml by Nanodrop; | <b>GeneID (NCBI):</b><br>2204                         | <b>CloneNo.:</b><br>241426H1                          |
| <b>Source:</b><br>Rabbit                                       | <b>UNIPROT ID:</b><br>P24071                          | <b>Recommended Dilutions:</b><br>WB 1:1000-1:8000     |
| <b>Isotype:</b><br>IgG   | <b>Full Name:</b><br>Fc fragment of IgA, receptor for |   |
|  | <b>Calculated MW:</b><br>287 aa, 32 kDa               |   |
|  | <b>Observed MW:</b><br>65-70 kDa                      |   |

## Applications

|  |   |
|--|---|
| <b>Tested Applications:</b><br>WB, ELISA | <b>Positive Controls:</b><br>WB : A549 cells, HL-60 cells, K-562 cells, U-937 cells, Jurkat cells |
| <b>Species Specificity:</b><br>human     |   |

## Background Information

Fc $\alpha$ RI (CD89) is a member of the Fc receptor immunoglobulin superfamily, constitutively expressed on cells of the myeloid lineage like neutrophils, eosinophils, monocytes macrophages, and platelets (PMID: 28103138). CD89 expression and activation are increased in human blood phagocytes following bacterial infection, together with increased expression and association of Fc $\gamma$  with CD89 (PMID: 34756952). CD89 binds both subclasses of IgA (IgA1 and IgA2) with moderate affinity, but also binds other molecules such as TFR1, C-reactive protein and bacterial ligands. CD89 represents an effective target molecule for immunotherapy mediated by bispecific antibodies (PMID: 37081893).

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

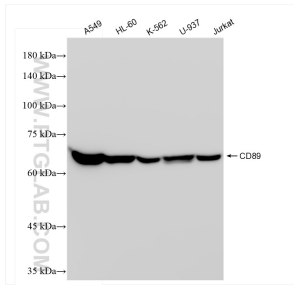
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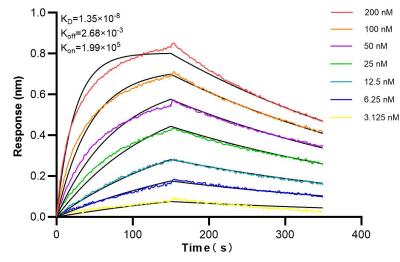
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 84384-5-RR (CD89 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 84384-5-RR against Human CD89 were performed. The affinity constant is 13.5 nM.